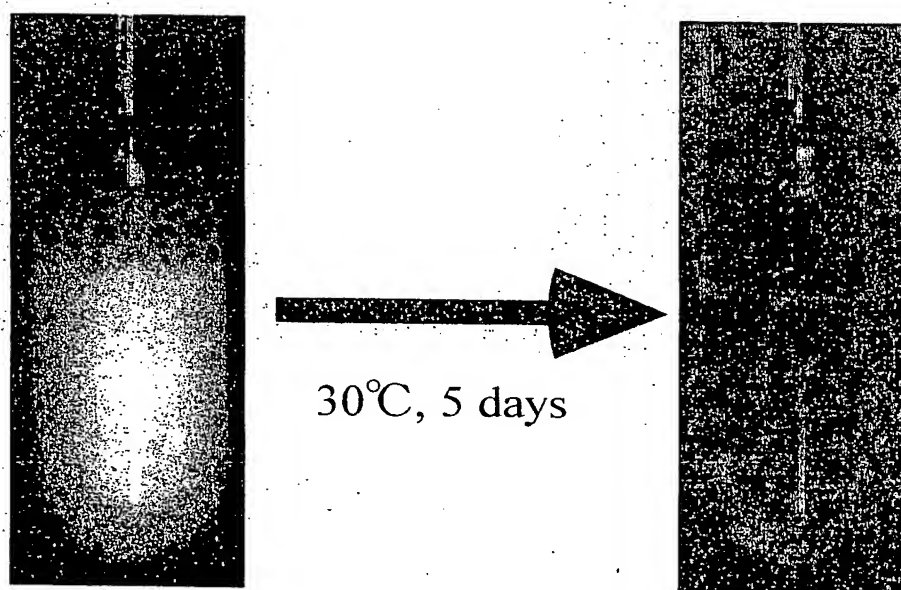
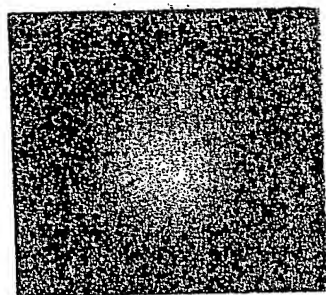


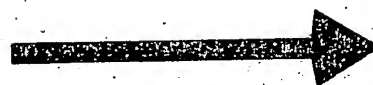
(A) Halo formation on PBS emulsion minimal agar medium



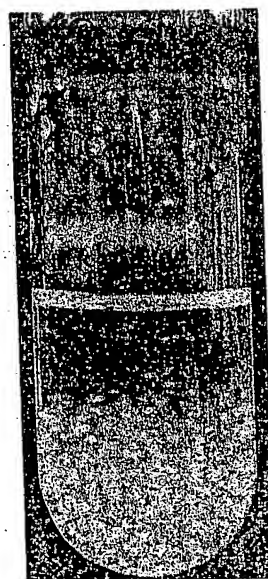
(B) Decrease in turbidity in PBS emulsion minimal liquid medium



(A) Halo formation on PLA emulsion minimal agar medium



30°C, 24 hr.



(B) Decrease in turbidity in PLA emulsion minimal liquid medium

FIG. 2

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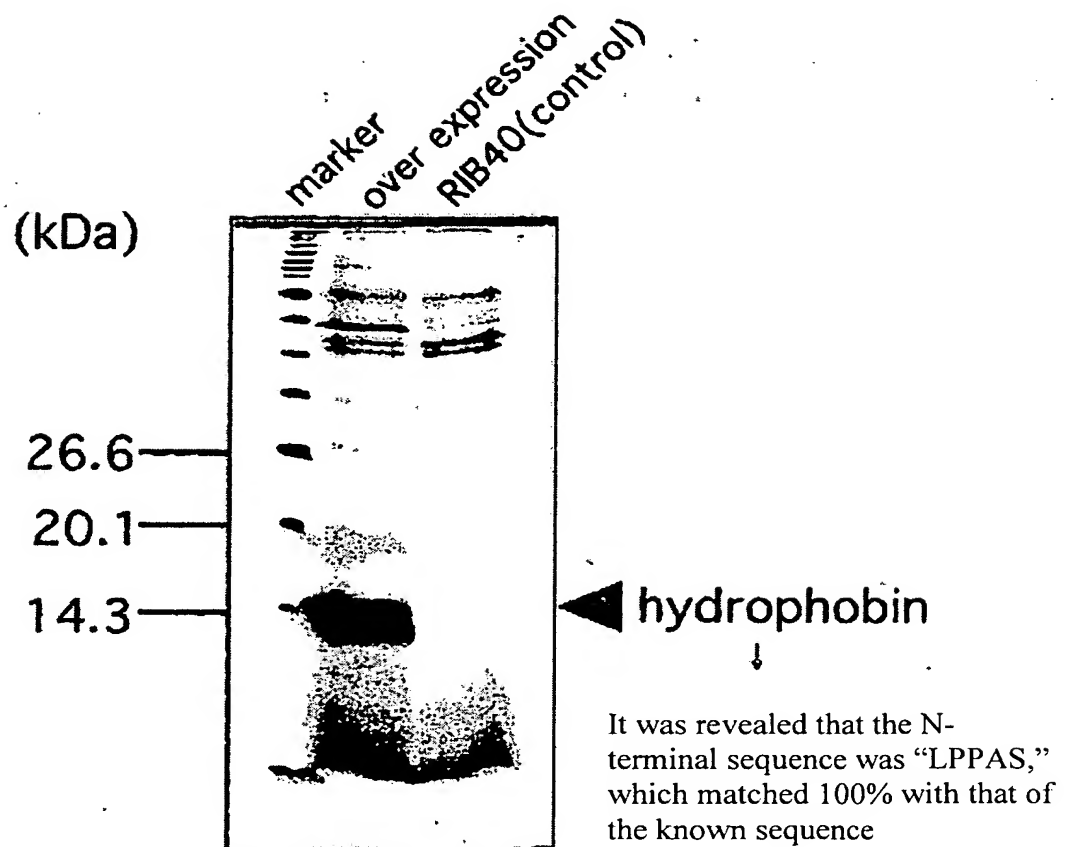


FIG. 8

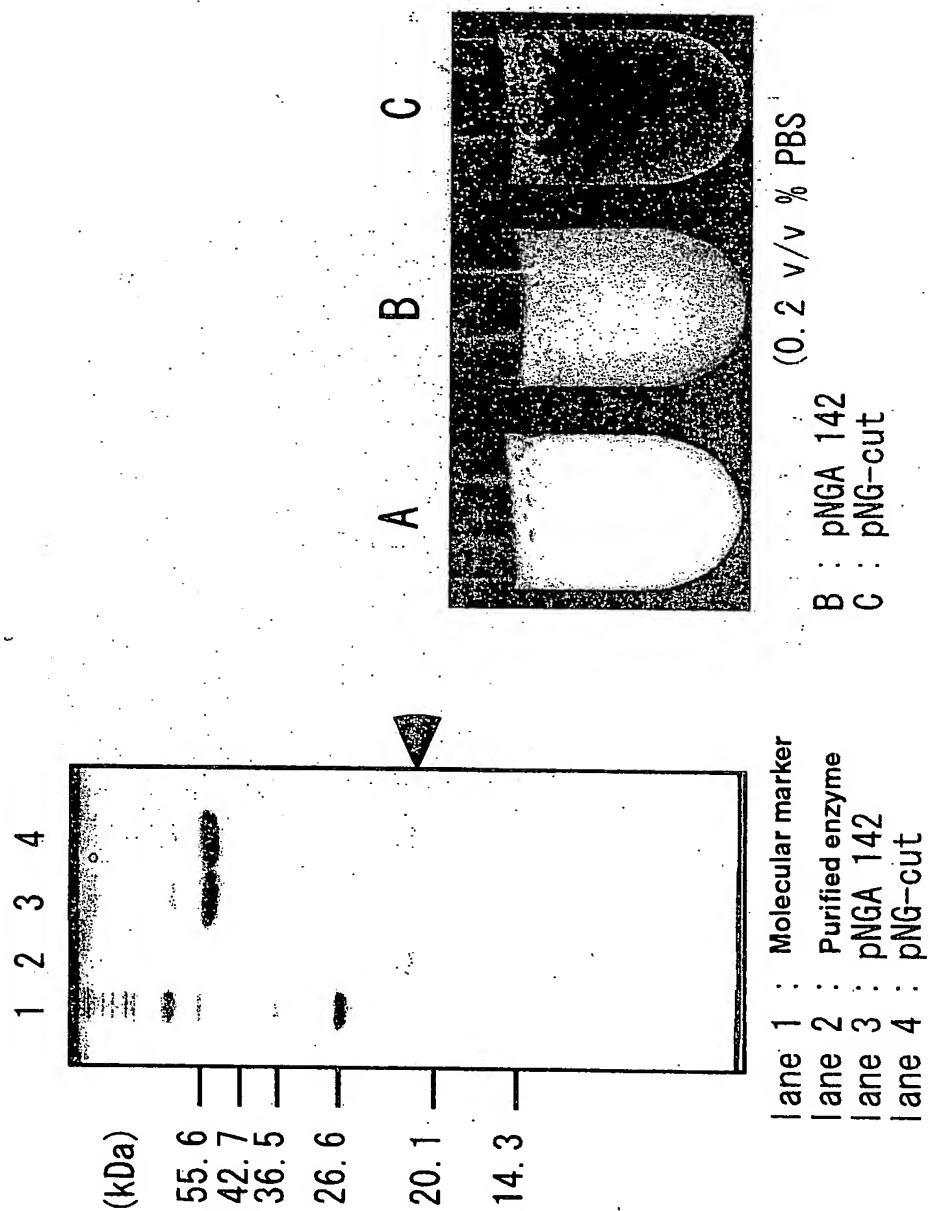


FIG. 9

SDS-PAGE

Detection of PBS-degrading activity

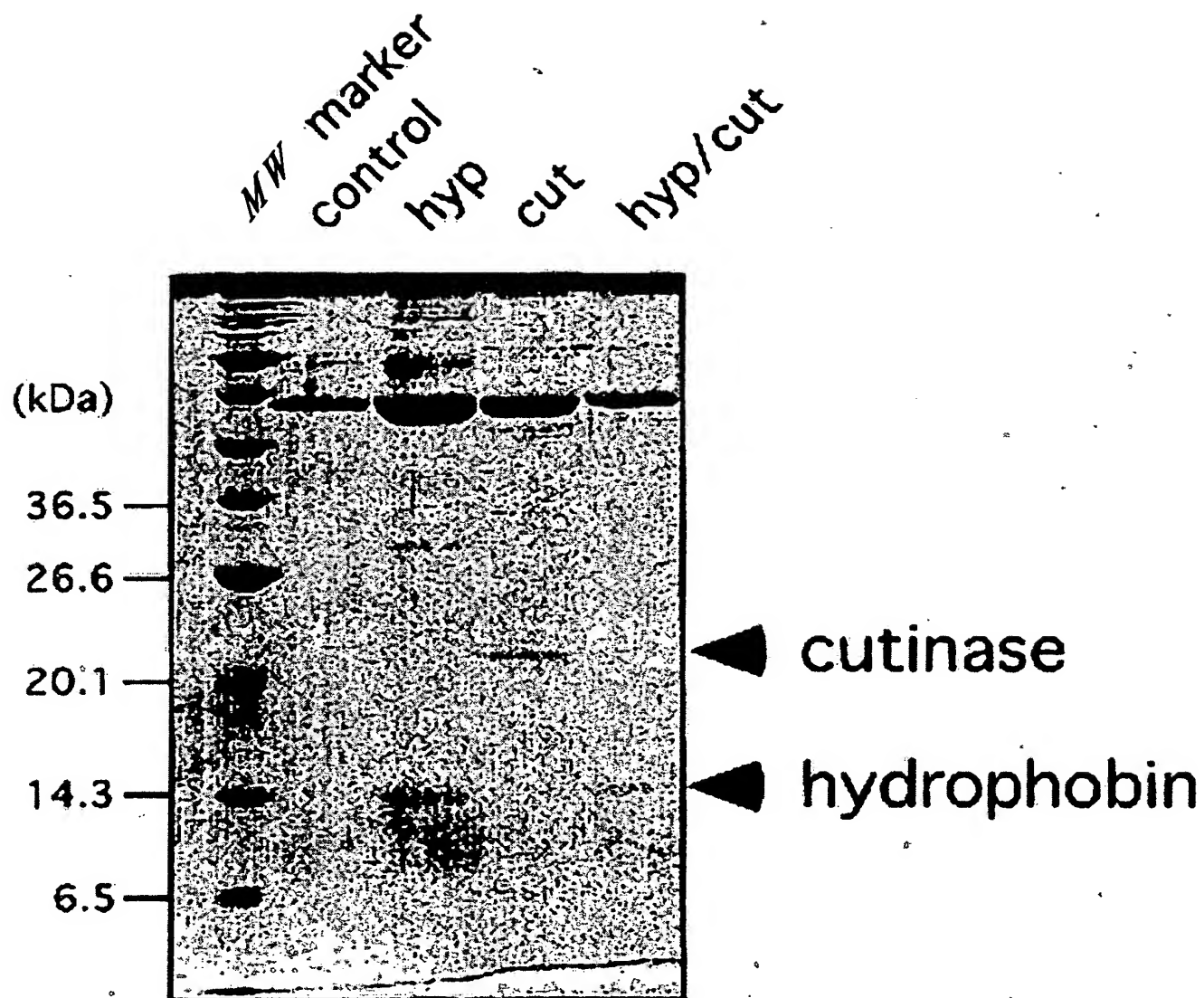


FIG. 11

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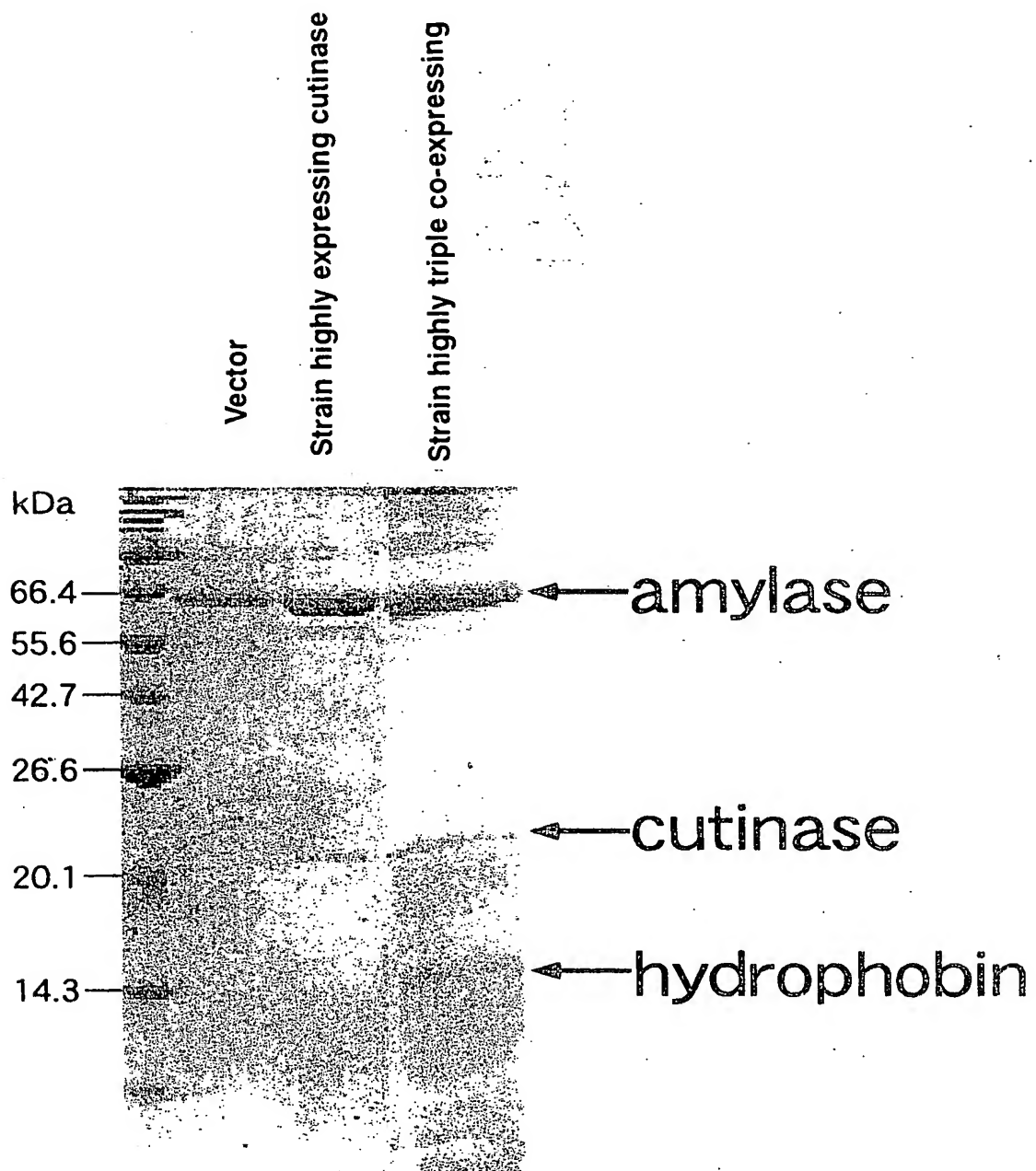
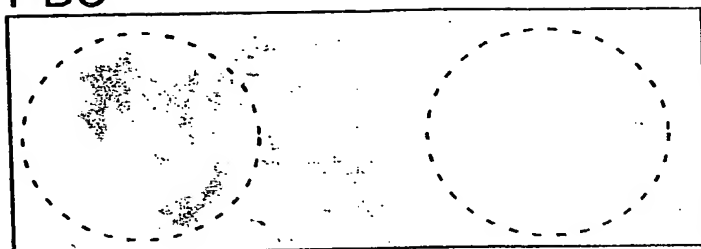


FIG. 14

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PBS



2.5 μ g/mL Purified
hydrophobin (Rol A)

Tris buffer pH8.0

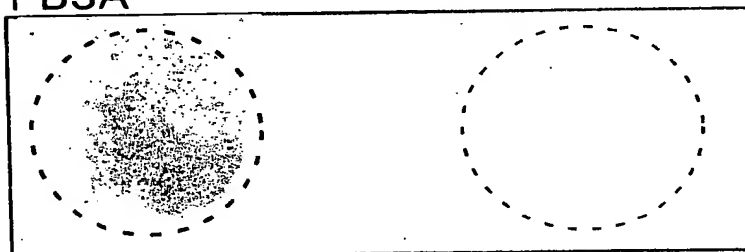
PLA



2.5 μ g/mL Purified
hydrophobin (Rol A)

Tris buffer pH8.0

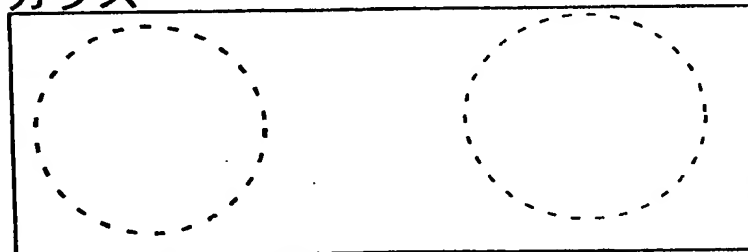
PBSA



2.5 μ g/mL Purified
hydrophobin (Rol A)

Tris buffer pH8.0

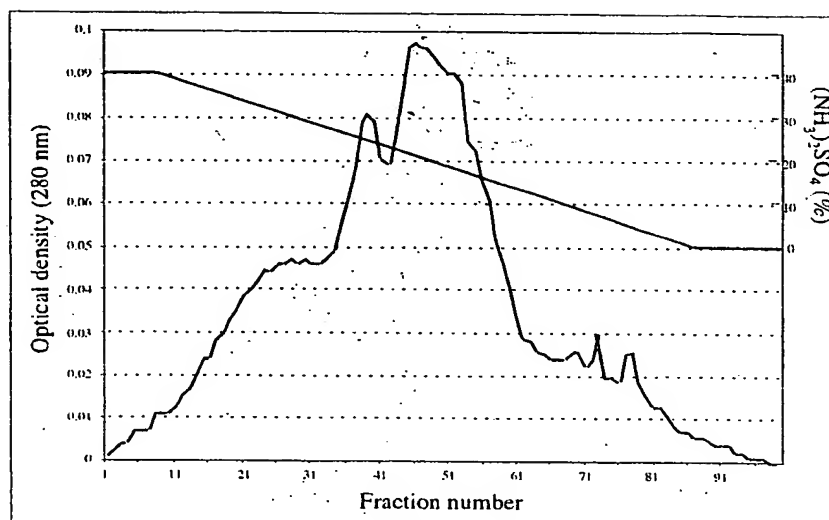
ガラス



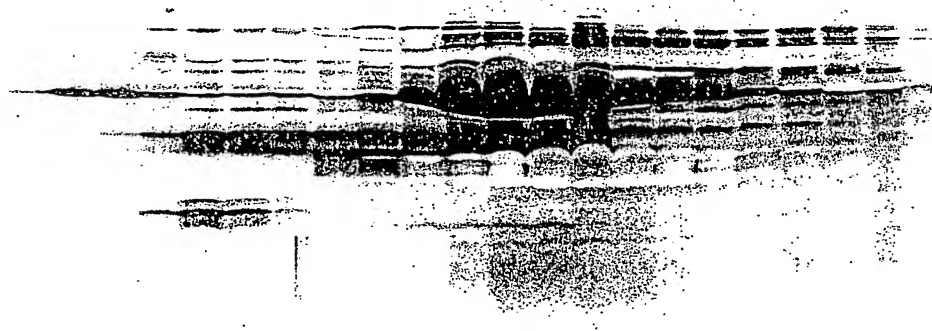
2.5 μ g/mL Purified
hydrophobin (Rol A)

Tris buffer pH8.0

FIG. 18



Protein concentration in an eluate fraction from octylcellulofine column



← 14.3 kDa
DASAVLADFNTLST

↔
Fraction 80-90

FIG. 20

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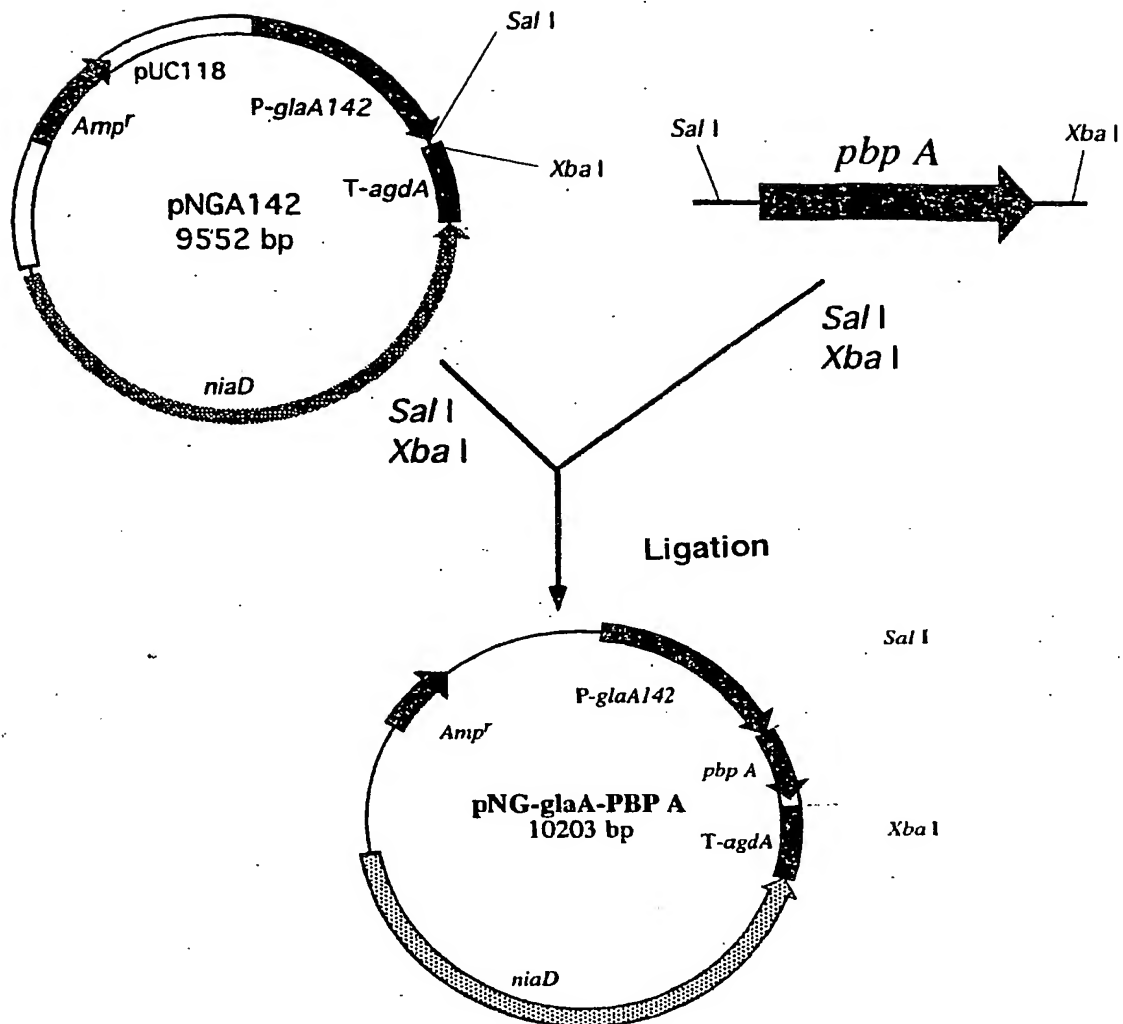


FIG. 21

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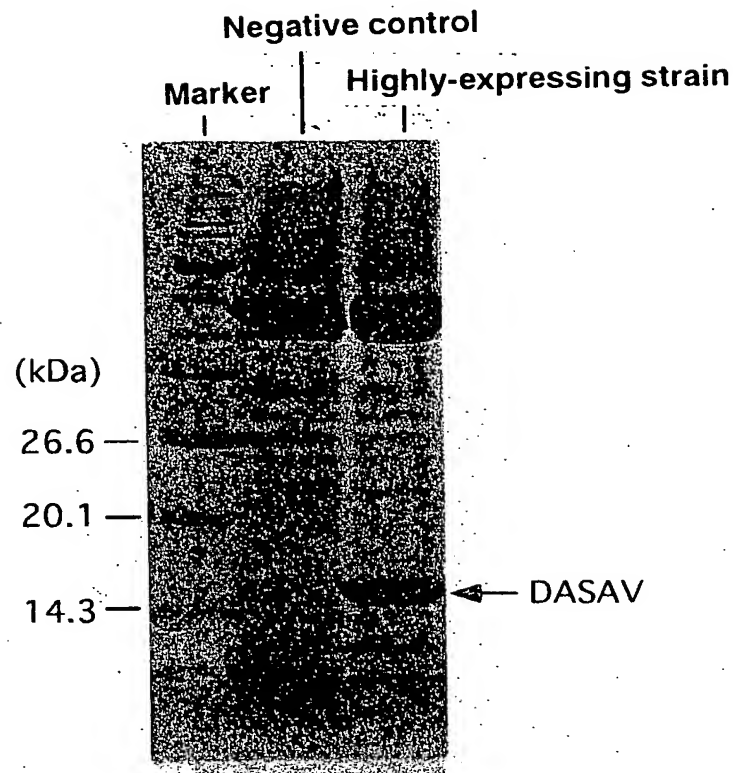


FIG. 22

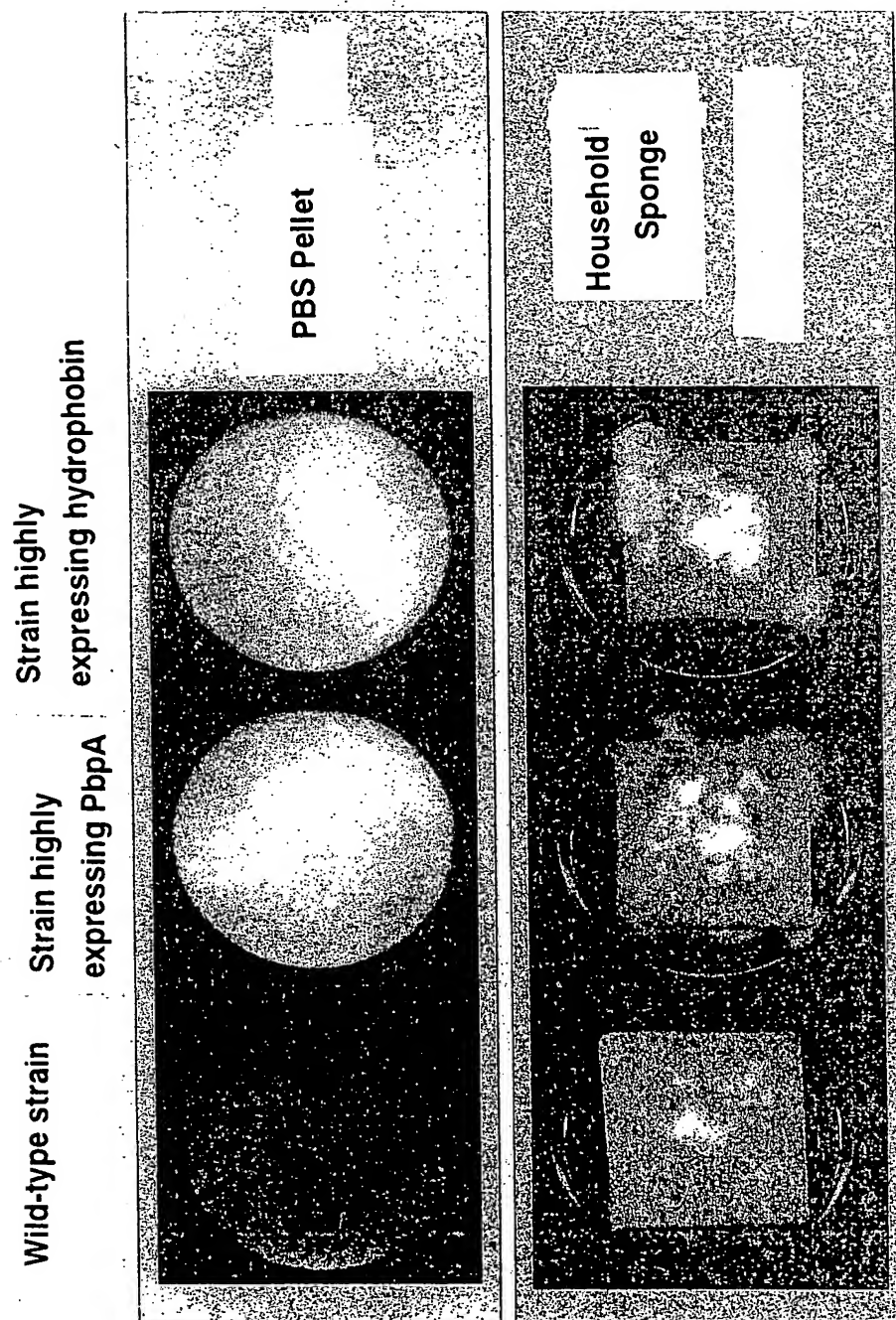


FIG. 23

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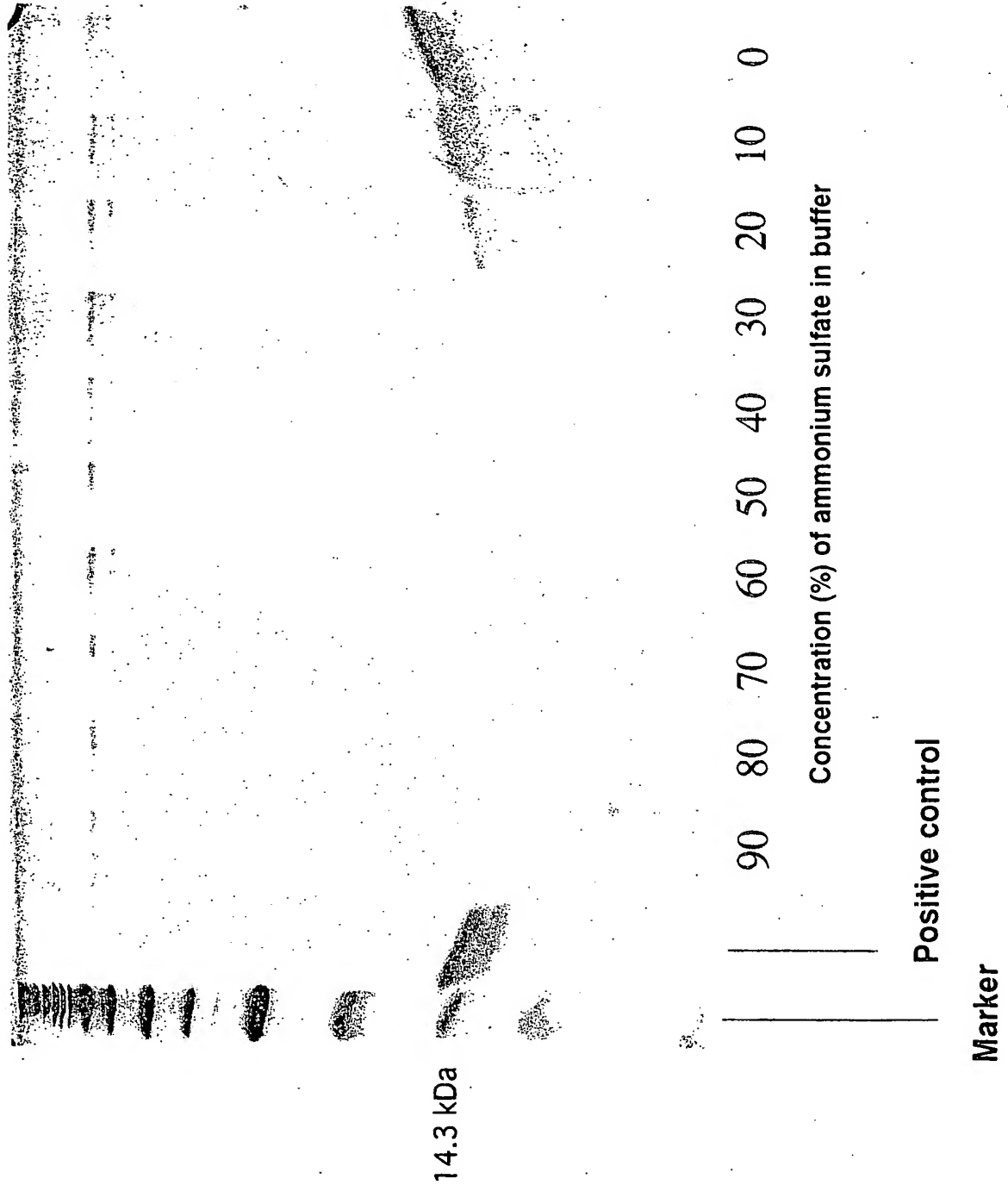


FIG. 24

Replacement Sheet

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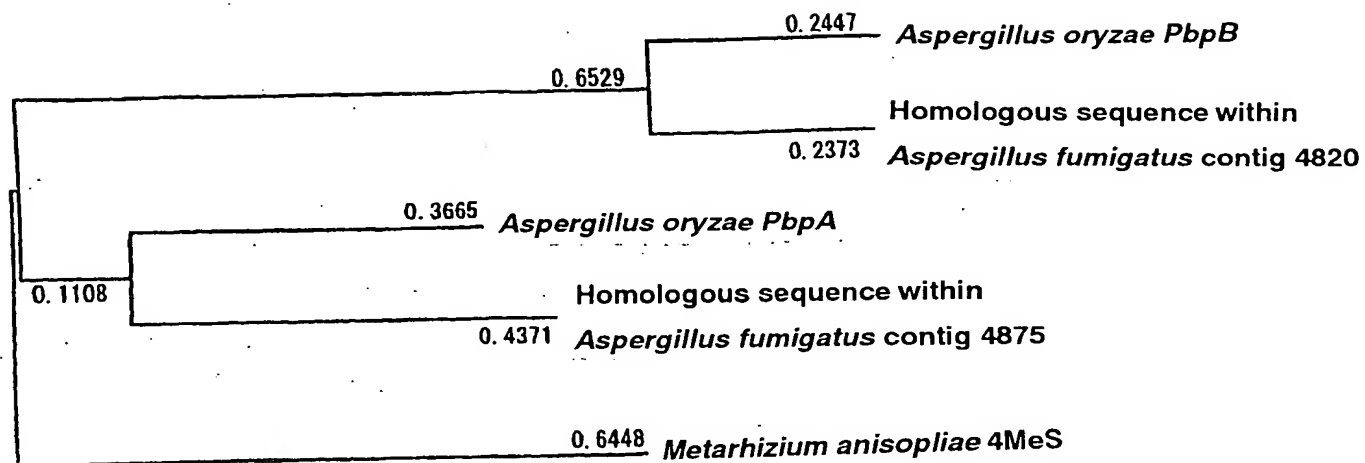


FIG. 25

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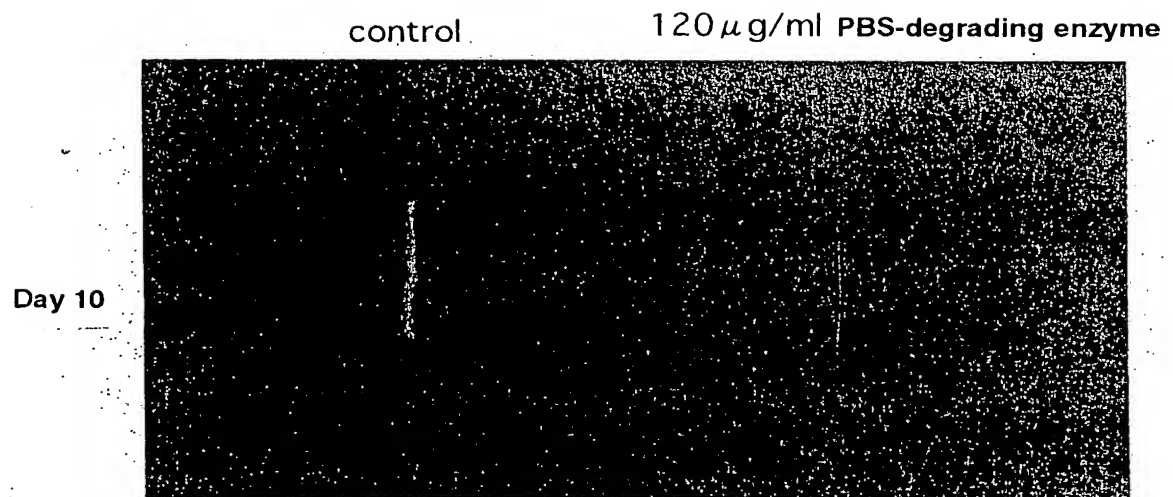
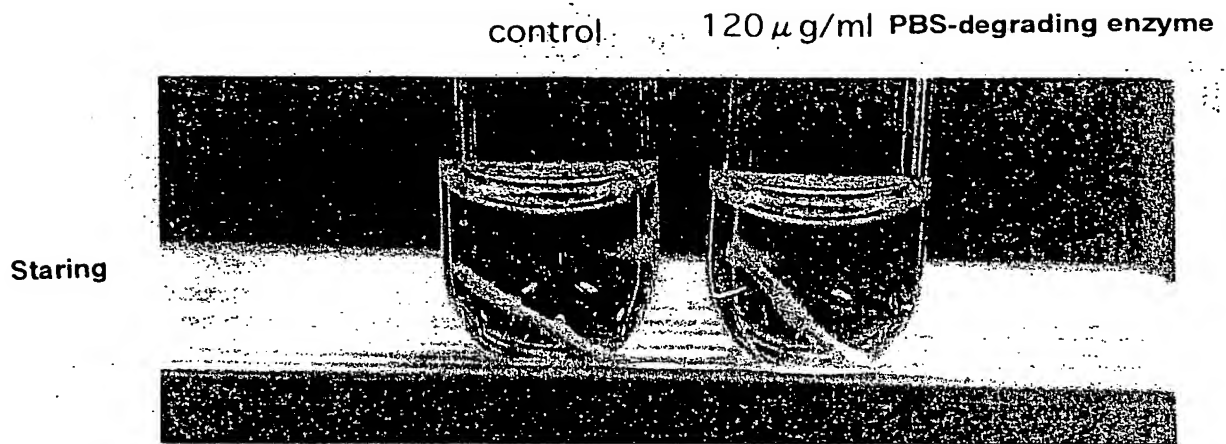
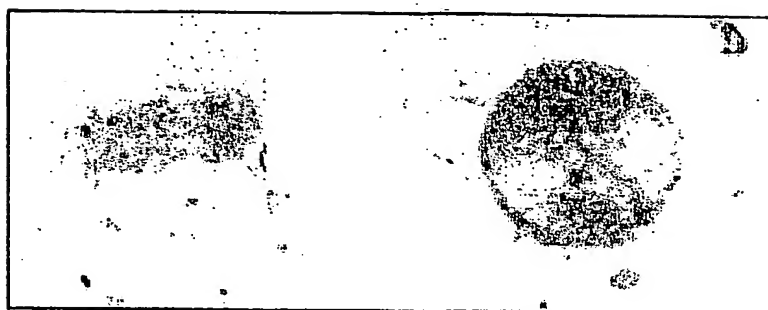


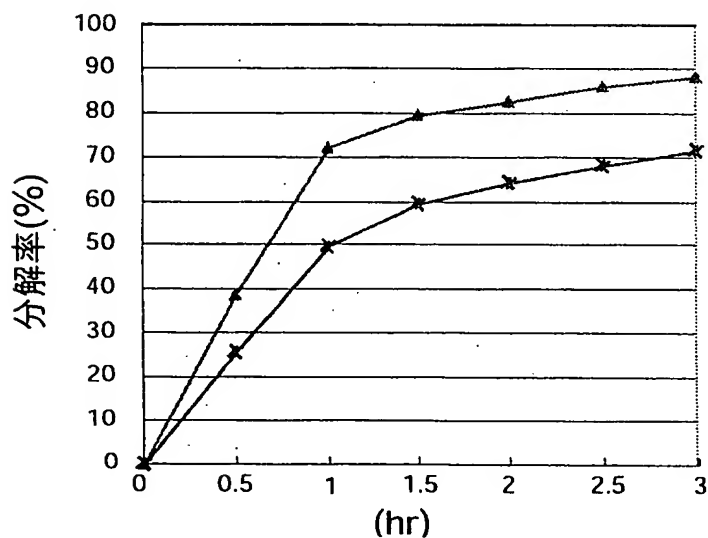
FIG. 26

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20 $\mu\text{g/ml}$ cutinase 2.5 $\mu\text{g/ml}$ RolA + 20 $\mu\text{g/ml}$ cutinase

FIG. 27

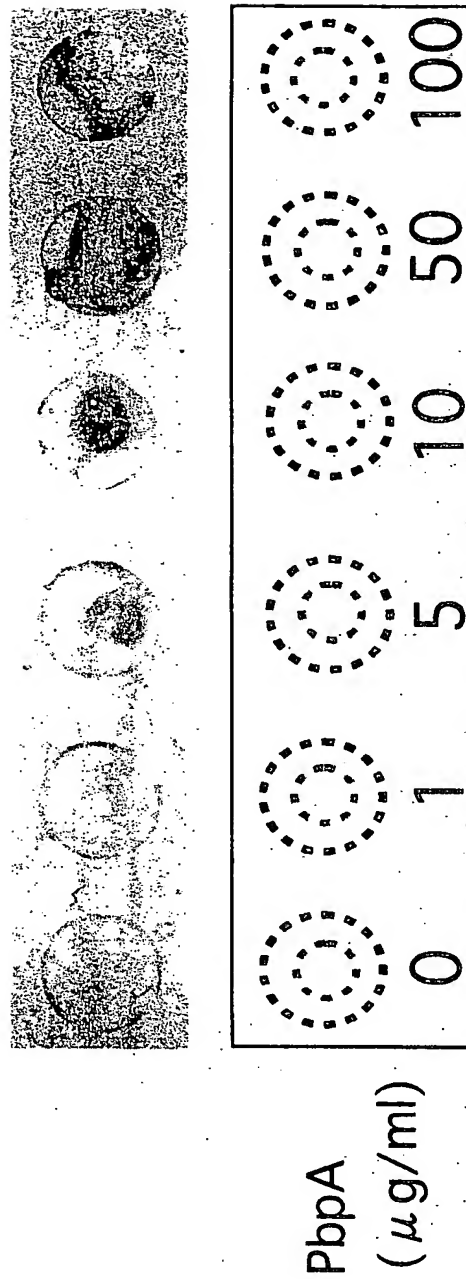


Promoting effect of RolA for the degradation of PBS

—△— RolA (0.025 $\mu\text{g/ml}$) + cutinase (50 $\mu\text{g/ml}$)

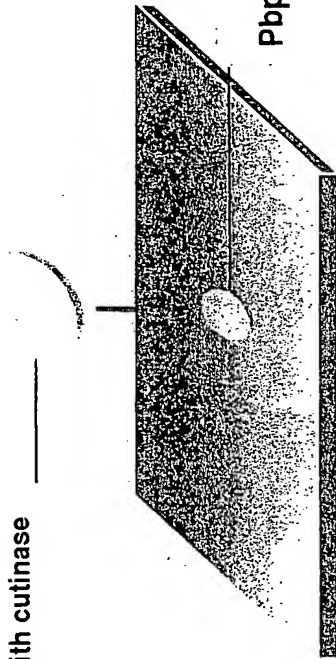
—*— cutinase (50 $\mu\text{g/ml}$)

FIG. 28



As the PBS film was taken as a transfer imaging, the black parts show the degradation

Filter paper soaked with cutinase



PbpA dried and attaching to PBS film

FIG. 29

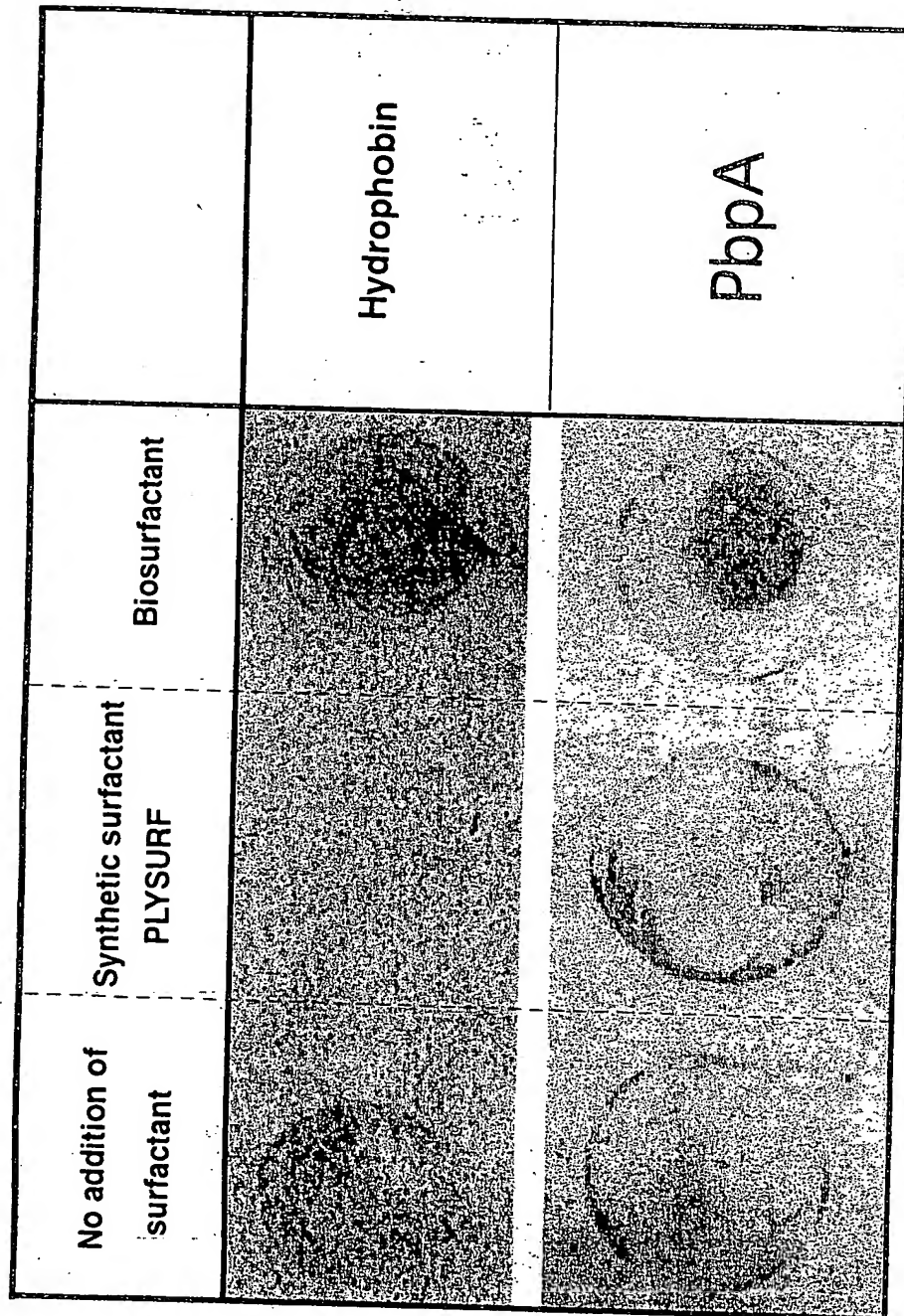


FIG. 30

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